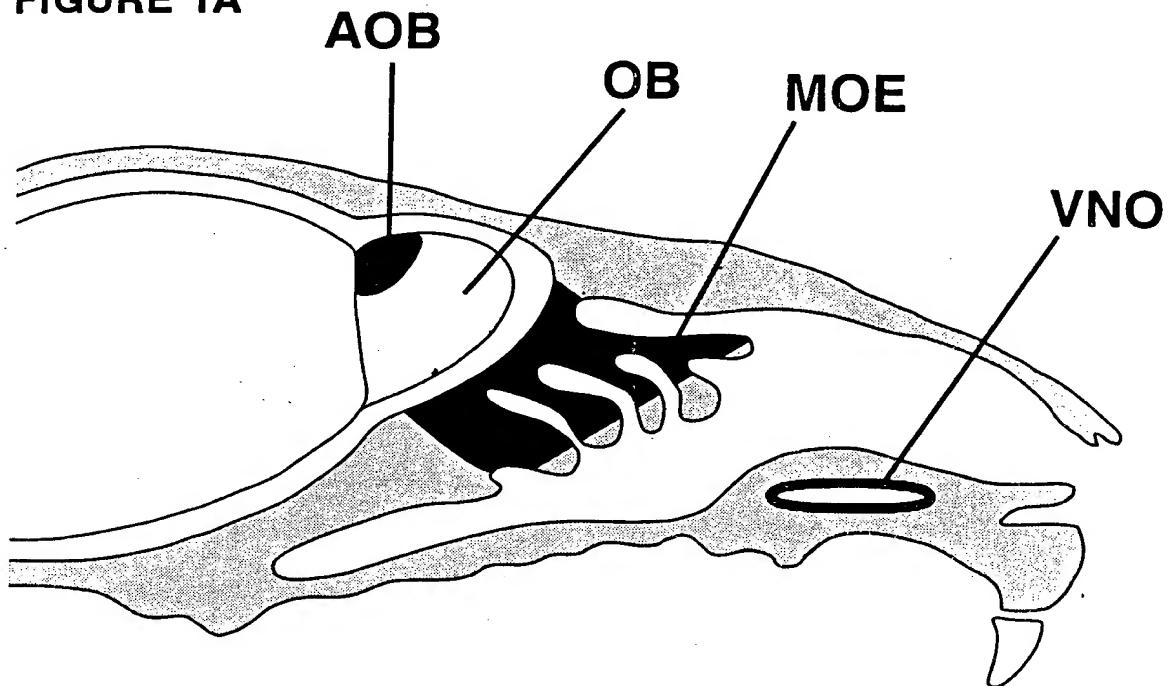
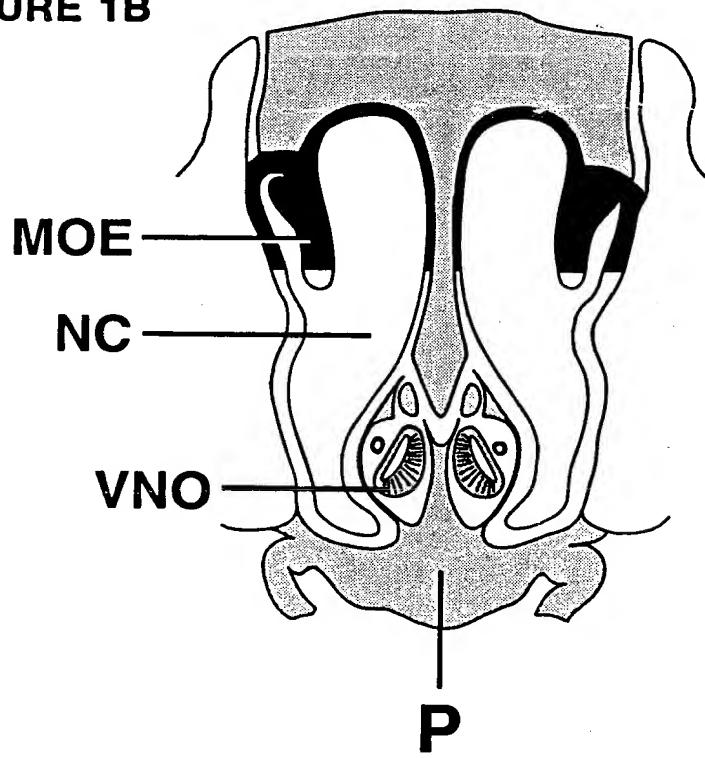


FIGURE 1A**FIGURE 1B**

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

FIGURE 2A

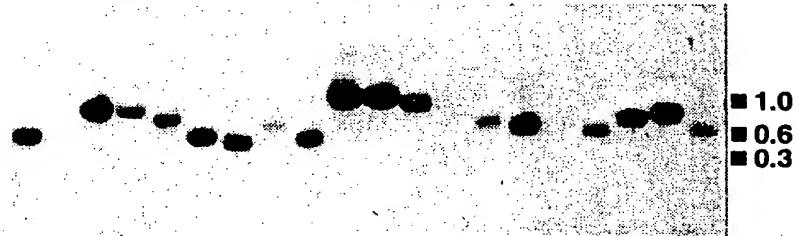


FIGURE 2B

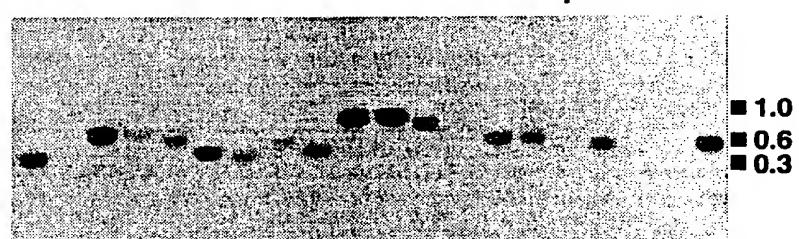


FIGURE 2C

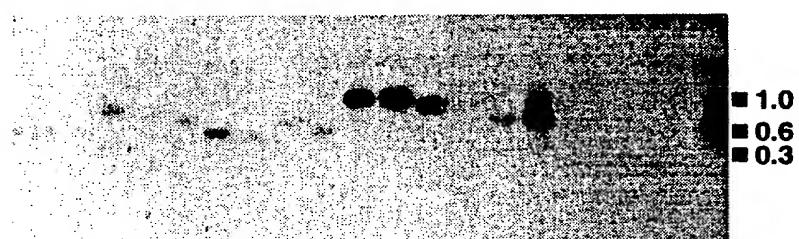


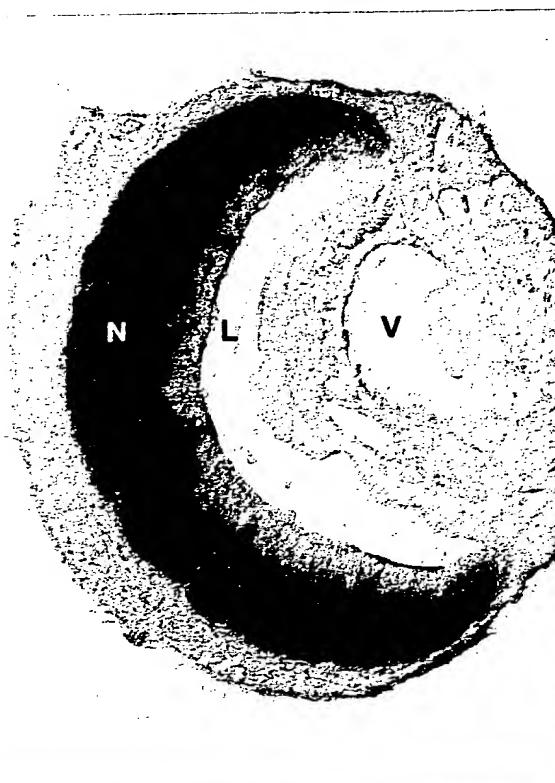
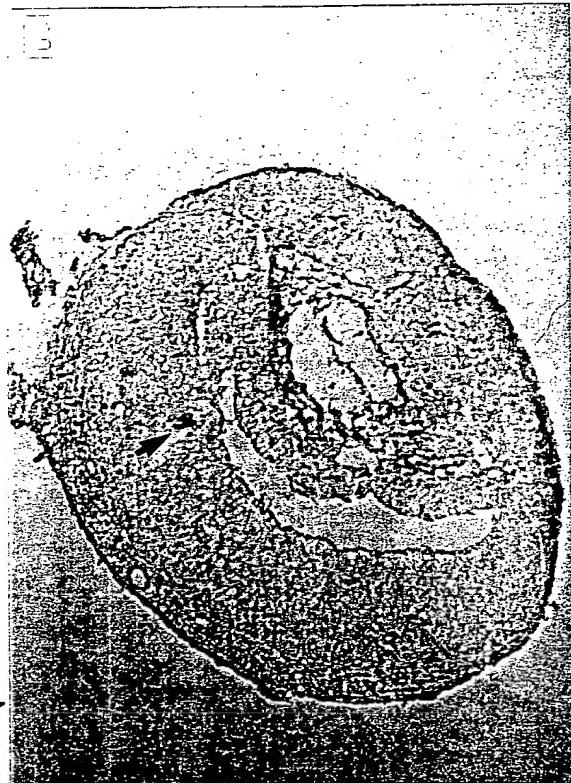
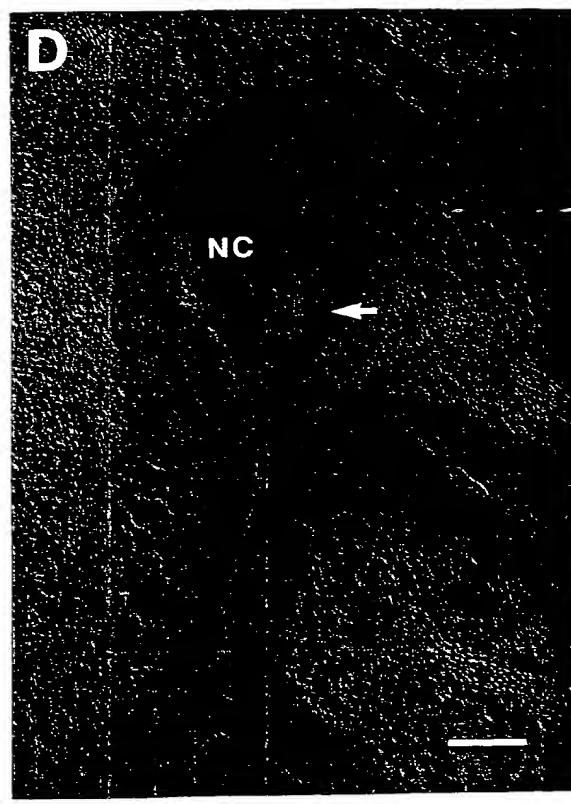
FIGURE 3A**FIGURE 3B****FIGURE 3C****FIGURE 3D**

FIGURE 4A

FIGURE 4B

R. EP3B 59 SKRKKSFLCIGWLAITDVGQQLTSPVILVYL**SORRWEQL**--DPSGRLCIEFGLMTVFGLOSSLVASAMA 121
VN2 43 GQRSLRTDPIGL**SSINLMLIMACIATDIFISCRRWDDIICKSLLYRTERGLSLSSTTC**LSVQAILLS 105

FIGURE 4C

VN6 KCKSLAHLHRLLRGLSLCATCLSIFQAITLSPRSSCLA
 HG25 NISPVIVRYRLMRGLSISTTCLLSVLQAINTTPRSSRLA

III

IV

VN6 KSTQHSLCSLVWAFYSCGTHYSFTIVADYNFSSRSLIFVTESCLILPMDYITTRDLFFILGIERDVSFIGMLALSSGYMVALC
 HG25 RSSHKPRCFLWVFHISISGSFLVSTLPSKNVASNSVTFVTQSCSAGPLSCFLGQTIFTLMTFQDVSL-qLWAPFSGYMVILC

V

VN6 RHRKGAQHLHRTSLSPKASPEQRATRTILLWSFVLMYCLDTISASR263.
 HG25 RHNRQSQHLHSINLSPKAPDKRAIQSILVSFVFMCLFPFAATLL

VI

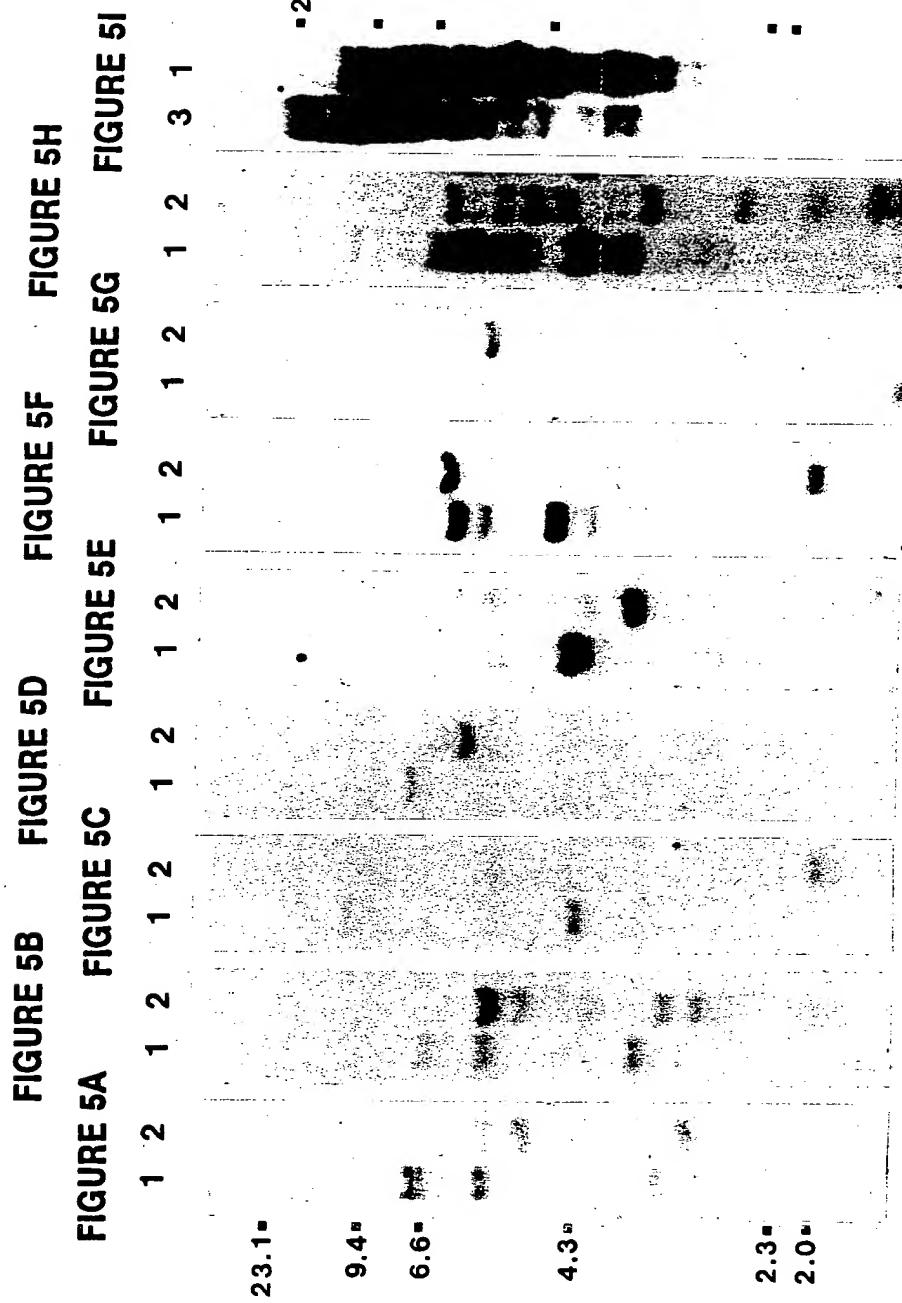


FIGURE 6A

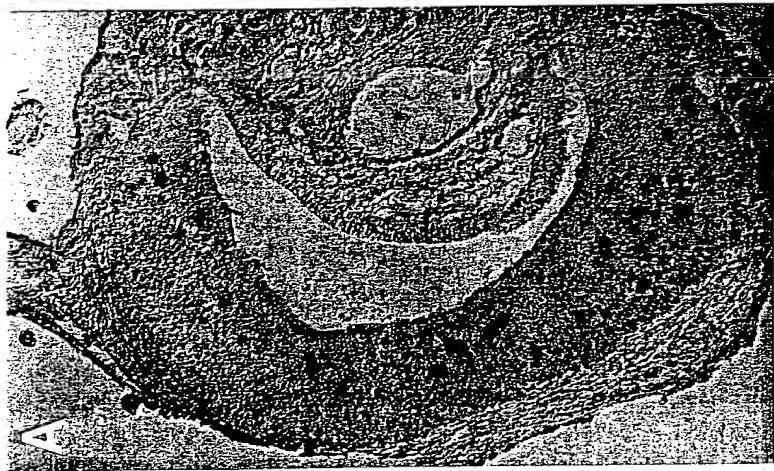


FIGURE 6B

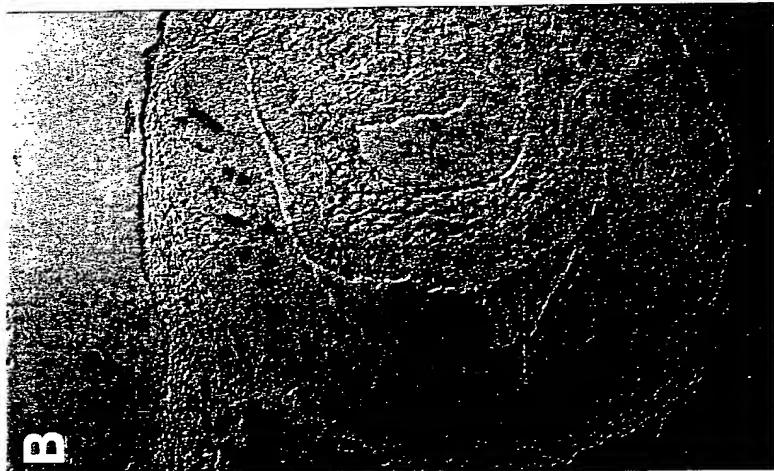
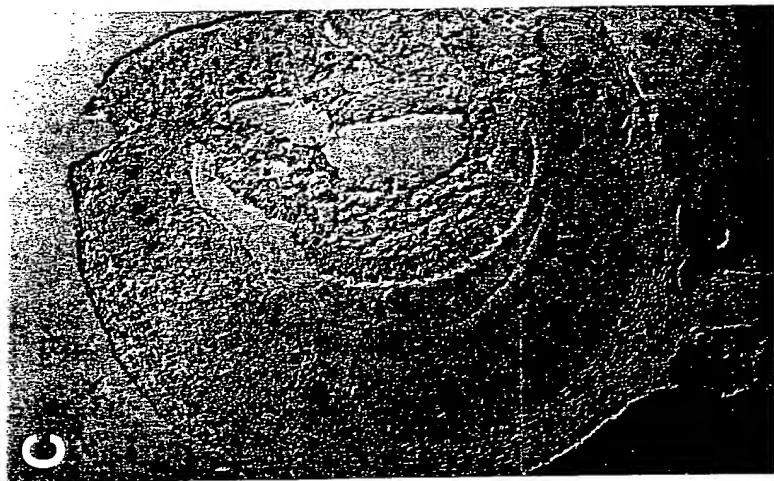


FIGURE 6C



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FIGURE 6F

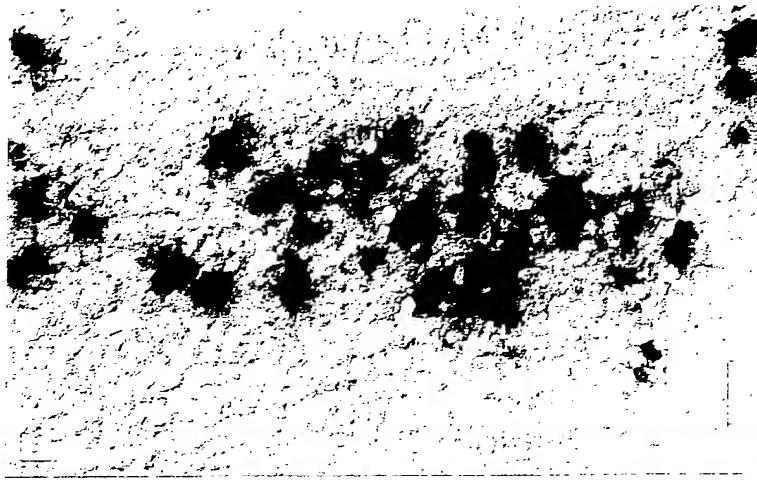
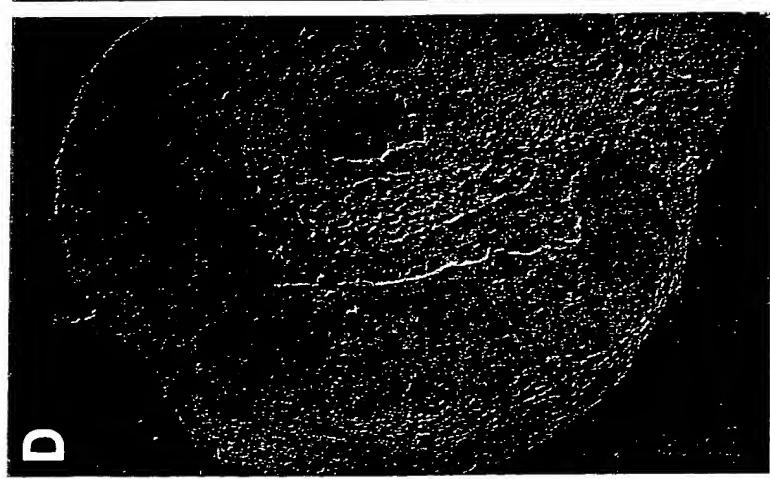


FIGURE 6E



FIGURE 6D



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FIGURE 7



FIGURE 8

TTTCGGCACGAGTTCACCTGCCCTCGAATTCAATTGAGTAAGTGACCAGC
AATGGAGTACAGAACATCAGAAGATGGTGGATCCCAGGCAGGCTGTGGGAGG
AGGAACACTGGAACCTGCATGAGGAGTTGAGCACCTGCCATGGAGTAGCTG
ATCTCTGAGGACCCCTCANCACAGGTCTGTGTCTACATCAAGTGCATATT
TTTCCTAGGATATTCAATTCCGTAAGTCCTGAAATTACTTAATTTTATAG
GAGTTCTCATATATGATGAATAAGAACAGCAGACTCTACACTGATTCTAA
CATAAAGGAATACCTTTCGCTGAAATTGGCATTGGAGTCTCAGCCAATAG
CCTCCTACTCTCTCAACATCTCAAGTTAATTGTGGCAGAGGTCCAGA
CTCACTGACCTGCCATTGGTCTCTGTCCCTAATCAACTTACTTATGCTACT
GATGACGGCATTCATAGCCACAGACACTTTATTCTGGAGAGGGTGGGA
TGACATCATATGTAATCCCTCTACCTGTACAGAACCTTATAGAGGTCTC
TCTCTTGTACCAAGCTGCCATTGGTCTGTGAGTGTCCATGCCAGGCTAC
AGAAGCTCCTGTTAGCAAAGTCAAACATAAGCCTCCATCACATCTCCT
GTGCCATTCTCTGAGTGTCCATCACATGTCATTAGCAGTCACCTCTTA
GTATCCATCATGCCACCCAAATTGACCACGAATGACTTATTCATGTTA
CTCAGTGGTGTCTATTCTACCCATGAGTTACCTCATGCAAAGCATGTTCT
ACACTGCTGCCATCAGGGATGTCTTCTTATTAGTCTCATGGTCCGTCAAC
ATGGTACATGGTGGCTCTTGTGTAGGCACAGGAAACAGACCCGGCATCTT
CAGGGTACCGCCTTCCCCAAAAGCATCCCCAGAACAAAGGCCACCCGTT
CCATCCTGATGCTCATGAGCTTATTGTTGATGTCGTCTTGTACAGCATT
GTCTGCAGCTCAAGAACTATGTATCTGAATGATCCAATATCTTATTCTTAT
CAACTATTATGGTGCACATCTATGCCACAGTAAGCCCTTGTGTTATTG
TCACTGAAAAACATATAGTTAACTCTTGAGGTCCATGTGTGTGAAGGTGC
ATGAATGTTGAATATTCCCTGATAGCAAGCTCCATTAAAGAGGAGCCAAT
GTAAGCATCAGAACACTGTCAATCATGGCGTGTATGTGTTGGCATATGTG
AAATATGAAGTTGTTCTGTTAAATGATTACTTTAACTGACGAGAT
GATGAACGTAACTGAGAACATCCCCATTGATAT

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FIGURE 9

GTGGATCCCCGGGCTGCAGGAATTGGCACGCCGTGATTAAGGGACTTG
AACTTTCAAGGGATTGGAGTTTATGAAGAATTGAAGATTACAGAG
TTTACAGGAATGGAGCTGACCAGCCACTATGACATGCCCTATATCTCCAAG
AGCATAAAATATAAGGCATGGCATGAGAGGACCAGCAGCCACTGTTCTCAT
ATATGATGAATAAGAACAGCAGAGTCCACACTGATTCTACCATAGGAA
TACCTTCTCCACTGAAATTGGCATTGGAAATCTTAGCCAACAGTTCTACTT
CTCTTCCACATCTCAAGTTATTCTGGACAGAGGTCCAGACTCACTGACCT
GCCCATGGTCTCTGTCCCTAATCCACCTACTGATGCTACTGATGGGGCAT
TCATAGCCATAGACATTATTATTCTGGAGGGATGGGATGACATCATAT
GTAAATTCTTGTCTACTGTACAGAAGTTAGAGGTCTCTCTCTTGTAC
CACCTGCATGTTGAGTGTCTGCAGGCCATCACCCTCAGCCCCAGAAGCTCCTG
TTTAGCAAAGTTCAAACATAAGTCTCCCCATCACGTCTCCTGTGCCATTATT
TCGCTGAGCATCCTCTACATGTTCATAGCAGTCACCTCTTAGTATCCATCA
ATGCCACCCCCAATTGACCACGAACAACTTATGCAAGTTACTCAGTCCTG
CTACATTATACCCCTGAGTTACCTCATGCAAAGCATGTTCTACACTCTG
GCCATCAGAGATATCTCTTATTAGTCTCATGGTCTCTCGACTTGTACAT
GGAGGTTCTTGTGTAGGCACAGGAATCAGATCCAGCATCTCAAGGGACC
AACCTTCCCCAAAAGCATCTCCAGAACAAAGGGCCACACAGACCCTG
ATGCTCATGACCTCTTGTCTTAATGTCATTTCGACAGCATTGTCTCTG
TTCAAGAACTATGTATCTGAATGATCCAACATCTTACTATATTCAAATAT
TTGTAGTGGACATCTATGCCACAGTCAGCCCTTTGTGTATGAGCACTGG
AAAACATATAGTTAACTTTGAAGTCCATGTGTGTGAGGGTGAAGAATG
TTTGAATATTCTTAATGGACAAGATCCTTAAGAGGAGCCAATGTAGTC
ATCAGAACTGTCAGTCAGTGTGCTGTCTATGTGCTTGGTAAATGTGAA
TCATGAAGTTGTCTGGTAAATGATTACTTAACCAACTCATGATT
GTAAACATGTAACAGGAGATAAACAAATATCCCCTCGGAAA

FIGURE 10

AATTGGCACGAGCAAAGGCAGGGAAGATGCTCCACTGGGATGTCATGTCTC
TATGCTCCACAGTGGAAAAGTTGTCACATTGTACAAACACTAAAATTACG
AATTGCTCACAGGCACTAAAAGCTTCCTTAATCCTGTGCAGGATCTCCTCAG
GTACAGAGTCCTCCTGATACGTCTATCTGGTCAGAGGAAAGAGCTGATCAG
TCATTAACAGAGCTGATTGGTCCCTCCAAGGTACATGACAAGGACTGTA
TGAGAAAACCAGCAGTGACATGTCTATAGAGATCATTCTGTGCCACACCCA
GCTCCATGTTGGTTGTGGTATTGCTTCATCCACATACAATGAATAAA
GACAACACACTCCATGTTGACACAATCATGAAAATCACTATGTTCTCTGA
AGTGAGTGTGGCATCTAGCTAACAGTATCCTGTTTGTGGTACCTGTGC
ATGCTCCTGGAGAGAACAGCTAACAGCCCATTCACTCTACATTGCATCCT
TGTCCCTAACACAACAACTAATGCTGCTTATAACTATGGGACTCATAGCTGCTG
ACATGTTTATTCTCAGGGGATATGGGATTCTACCTCATGCCAGTCCCTTAT
CTATTGCACAGGCTTCGAGGGGTTTACCCCTAGTGCTGCCTGCTGCTGA
ATGCTTTGGATGATCACTCTCAGTTCTAAAAAAATCCTGTTAACAAAGT
TTAACATAACTCTCCCCATCACATCTCAGGTGCCCTTCTCTCCTCTGTGTT
CTCTACATGTGTTAGCAGTCACCTTATTATCGATTATTGCTACCCCTA
ACTTGACCTCAGATAATTATGTATGTTACTAAGTCCTGTTCAATTCTACC
CATGTGTTACTCCAGAACAGCATGTTCCACAACAATTGCTGTCAGGGA
AGCCCTTTTATCGGTCTCATGCCCTGCCAGTGGTACCTGGTGGCTTCT
CTGGAGACACAGGAAGCAGGCCAGCATCTCACAGCACCGGCCCTTCTCA
AAGTCATCTCCAGAGCAAAGGGCCACCGAGACCATCCTGCTGCTTATGAGTT
TCTTGTTGTTCTACATTGGAAAATGTTGCTTCACTCAAGGATGAA
GTTCAAGGATGGGTCACATTCTACTGTGTCCTTATTGCTCCATAGC
TATGCCACTGTCAGCTCTTGTGTTATTCTACTGAAAAGCGTATGACTA
AGATATTGAGGTCACTGTCAGGATGAAATAATAATAATTGATTATTCACT
GATGGGTATTGCCCTTAAAGAATAAAACCATTACGTTGTCATCAGAGGTTGG
GTCATGACATAATTGGGACATTCTCTGTCCTAAATTGATAAAATGAAATT
TCTTTCTGTTAAAATGTTCTTGTGTTGATGCCAATATGAA
AAGAAAATGAAACACCATGTCCTCTACATATCCAACCAAAAAAAA
AAA

FIGURE 11

TTTTTCCCCACCTCTCATGCTTTGAAAAGAACAGATCTAAGCCCATTGA
TCTCTACATTGCTTTCTTATCCTTAACCCAACATAATGCTGCTTATAACTATT
GGACTTATAGCTGCAGACATGTTATGTCGGGGGAGATGGGATTCTACCA
CATGCCAGTCCCTATCTATTGGACAGGCTTTGAGGGGTTTACCCCTTGT
GCTACCTGTCTGCTGAATGTCCTTGGACCACACTCTCAGTCCTAGAAGCTC
CTGTTAACAAACATTAAACATAAAATCTCCCCATCACATCTCAGGTGCCTT
TCTTTCTCTGTGTTCTATATATCTTTGGCAGTCACCTCTTTATCAA
CAATTGCTACCCCCAATTGACTTCAGATAATTATGTATGTTACTAAAT
CCTGTTCAATTCTACCCATGAGTTACTCCAGAACAGCATGTTTCCACACC
AATGGCCATCAGGGAAAGCCCTCTTATTGGTCTCATTGGCCTGTCCAGTGGGT
ACATGGTTGCTTCCTATGGAGACACAAGAATCAGGCCCGCATCTTCACAG
CACCAGCCTTCTTCAAAAGTGTCCCCAGAGCAAAGGCCACCAGGACCATC
ATGATTCTCATGAGCTCTTGTGGTCTCTACATTGGAAAATGTTGTCT
TCTACTCTAGGATGACATTCAAGGATGGGTCAATGTTCTACTGTGTCCAAA
TTATTGTGTCCCATAAGCTATGCCACCATCAGCCCTTGTGTTATTGCACA
GAAAAGCGTATAATTAAACTTGGGGTCAATGTCAGCAGAACAGTAA
GTATTGATTACTCAGTGATGGATATGGTCCCTTAATATAACCAATATG
TTGTCATAATAACTATGGATCATGACATATTGGGGACATTCTGTGTCTTAA
ATTATAAAAAAAATTCTTTTGTGTTAATCTGTTCCCTGTGTG
TGGATGATAAGTATATAAAGGGAAATTAAACAGCGTGTCCCTCAGATAT
CCAAAAAA

FIGURE 12

GGGCTGCAGGAATCGGCACGAGTCAGAGTCCTCCCTGCTATGTGTATCTGG
AGCCAGCGACTCTCTATGGAGAGCAGCTGTGCAGGCAGGTGGTGGAGCGGA
AGAAGGCGTGCTGCTGTGACATCATCAAGATGCTGCCTAGCCCTGCGTCGCTG
CTCTCTGAGGAAGCAGGAGACTGACCCCTGTGACAATGACTTGATGAGTCA
CTCTGTTGTCTACTTACCCCTAGTTCTTGTCCCATAACATGAGGAGAATCAG
CACACTGTATGGAGTTGTTGACAAGCAAGCTATATTTCTCTGAAGTAGT
CATCGGGATCTCATTCAACAGTATCCTCTCCACATCTTCAGTTCC
TTCTTGAGCGTAGGCTCCGGATCACTGACCTGATCATCAGTCTTGGCCCTC
ATCCACCTGGGATGCTAACAGTCATGGGATTAGAGCTGTTGATATTTG
CATCTCAGAATGTGTGGAATGACATCAAATGCAAATCCCTGCCACTTAC
ACAGACTTTGAGGGGCCTCTCTCTTGCTACCTGTCTGCTGAGTATCTCC
AGGCCATCACCCCTAGCCCCAGAAGCTCCTGTTAGCAAAGTTCAAATATA
AATCCACACAGCACAGCCTGTGTTCCCTTGTGCTCTGGCCTCTACATGT
CCTGTTGACTCACTCCTCACCATCGTTGCTGACTACAACCTCTTCAC
GCAGTCTCATATTGTCACTGAATCCTGCATTATTTACCCATGGATTACAT
CACCAAGGGATTATTTCATATTGGGATATTGGGATGTGTCCTTCATA
GGTCTCATGGCCCTCTCCAGCGGGTACATGGTGGCCCTCTGTGCAAGACACAGG
AAACAGGCCAGCATCTCACAGGACCAGCCTTCTCCAAAAGCATCCCCAG
AGCAAAGGCCACCAGGACCATCCTGTTGCTCATGAGCTCTTGTGTTGAT
GTACTGCTGGACTGCACCATATCCGCCTCCAGACTATGCACAACGGTGAA
CCAATCCACCAAGTATTAGATGATGGTCTCCAATAGCTATGCCACCCCTCA
GCCCTTGCTGTTATTGTTACTGAAAATCGAATTAGTAGGTTTGAAGT
CCTGCTAGGAAGGACAGTAGATGCTTAAGTATTGAGGGAGGCAGGCCA
CTAAAGGAGCCAATATGCTAGCTACTGAATAATGAATCCTGGCCTAGTCCT
CATGCAATCCTGAACAAATTAAATACATGACTCATGCTTCGTTAACCTGCT
TCTTTGAAATGTGTATTACCAACACCTGTAGATATTGAGTCAAATTCT
TCATGTGTATTCTCTCAGTGTCACTAGGGACATCTGTGACACTTCACA
GATTAGGGTAACCTGTGCACCTATCAATAAGCTAAAGTGTACAGCACATT
TTACTAAGCCAATTATCTCAACAGTTGTTCTACCCAATTAAATATGTA
AATGTTACCAAAAAAAAAAAAAAA

FIGURE 13

TTGGGGTAAAACGGCTCGATGACTCCACATGTTGCCATGGCAGAATCTG
CTCCATGCGGGACAAGAAAATCTCTTCTGGCTGACGGNGCTTACTGCTG
AATTCACTGTCGGCGAAGGTAAGTTGATGACTCATGATGAACCTGTTCTA
TGGCTCCAGATGACAAACATGATCTCATATCAGGGACTGTCGACCTTCC
CTAACAGTATCCTGTTTGCACCTCTGCATGTTCTGAAGAGAACAG
GTCTAAGCCCATTGATCTGCTTCTTATCCTAACCCAACTAATG
CTGCTTGTAACTATGGGACTCATAGCTGCAGACATGTTATGGCTCAGGGGA
TATGGGATATTACACATGCAGGTCCCTATCTATTTCACAGACTTTGAG.
GGGTTCAACCTTGTGCTGCCTGCTACTGCATATCCTTGGACCTTCACCT
CAGTCCTAGAACGCTCCTGTTAACAAAGTTAACATAATCTCCCCATCA
CATCTCAGGTGCCTATCTTCTGTGTTCTATATGCTCTTAGCAGTC
ACCTCTTGTATTGGTATTGCTACCTCCAATTAACCTCAGATCATTAT
GTATGTTACTCAGTCCTGCTCACTCTACCCATGAGTTACTCCAGAACAGC
ACGTTTCCTTACTGATGGTACCCAGGGAAAGTCTTCTTATCAGTCTCATGGC
CCTGTCCAGTGGGTACATGGTACTCTCCTATGGAGGCACAAGAACAGGCC
CAGCATCTCACAGCACCAGACTTCTCAAAAGCATCCCCACAGCAAAGGG
CCACCAGGACCATCCTGCTTATGACCTTCTTGTGGTTCTACATTAA
GGCACTGTTATCTCCACTCAAGGACTAAGTCAAGGATGGTCAATCTCT
ACTGTGTCCTAAATTATTGTGTCCTAGCTATGCCACTATCAGCCATTG
GTTTGTCTGAAAAGCGATAATCAAGTTTTAGATCAATGTGTGG
CAGAATAGTAAATACTGATTATTCACTGATGAGTATGGTCATGAATAT
AGTCTAGTAAATTGTGATCAGAGTTATGGTCATGACATATTAAAAACAT
TCTCTAATTAAAGTTAACATATAAAATTATCTTATTCTCTAAATGTG
TTTACTTTGTGTGTTAAAGTATGAAAAGATAATTAAATCCCCAAAT
ACACCTTTTCTAAATTAAAAAA

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FIGURE 14

1 AACATAAGT CCAGTTATCT ACAGGTACAG GTTGATGAGA GGCCTCTCCA
61 CTGCCTGTTG AGTGTCTCC AGGCCATCAA CCTCACCCCA AGGAGCTCCC
121 GTTCAGAGAT CCTCACATCA CAAACCGCGT TGCTTCTCT TGCTGTCGGT
181 TCCATTAGTG GAAGCTCTT AGTCTCCACT CTTCCCTCCA AAAATGTTGC
241 GTTACATTG TCACTCAATC CTGCTCTGCT GGGCCCTGA GTTGCTTCCT
301 ATTTCACAC TGATGACATT TCAGGATGTC TCCTTGCAGC TCATGGCC
361 TACATGGTGA TTCTCTGTG CAGGCATAAC AGGCAGTCTC AGCATCTTC
421 CTTCTCCAA AAGCACCCCA AGATAAAAGG GCCATCCAGA GCATTCTT
481 TTCTTGTGT TCATGTGCCT TTTCCATT GCTGCTTAA CACTCTGTC